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FEDERAL - STATE - PRIVATE  
COOPERATIVE SNOW SURVEYS



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# WATER SUPPLY OUTLOOK FOR OREGON

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

OREGON STATE UNIVERSITY  
and  
STATE ENGINEER of OREGON

Data included in this report were obtained by the agencies named above  
in cooperation with other Federal, State and private organizations.

AS OF  
APR. 1, 1972

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR OREGON**

and  
**FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**

*Issued*

**APRIL 8, 1972**

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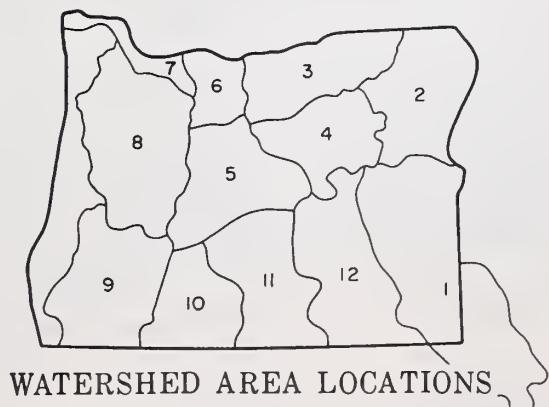
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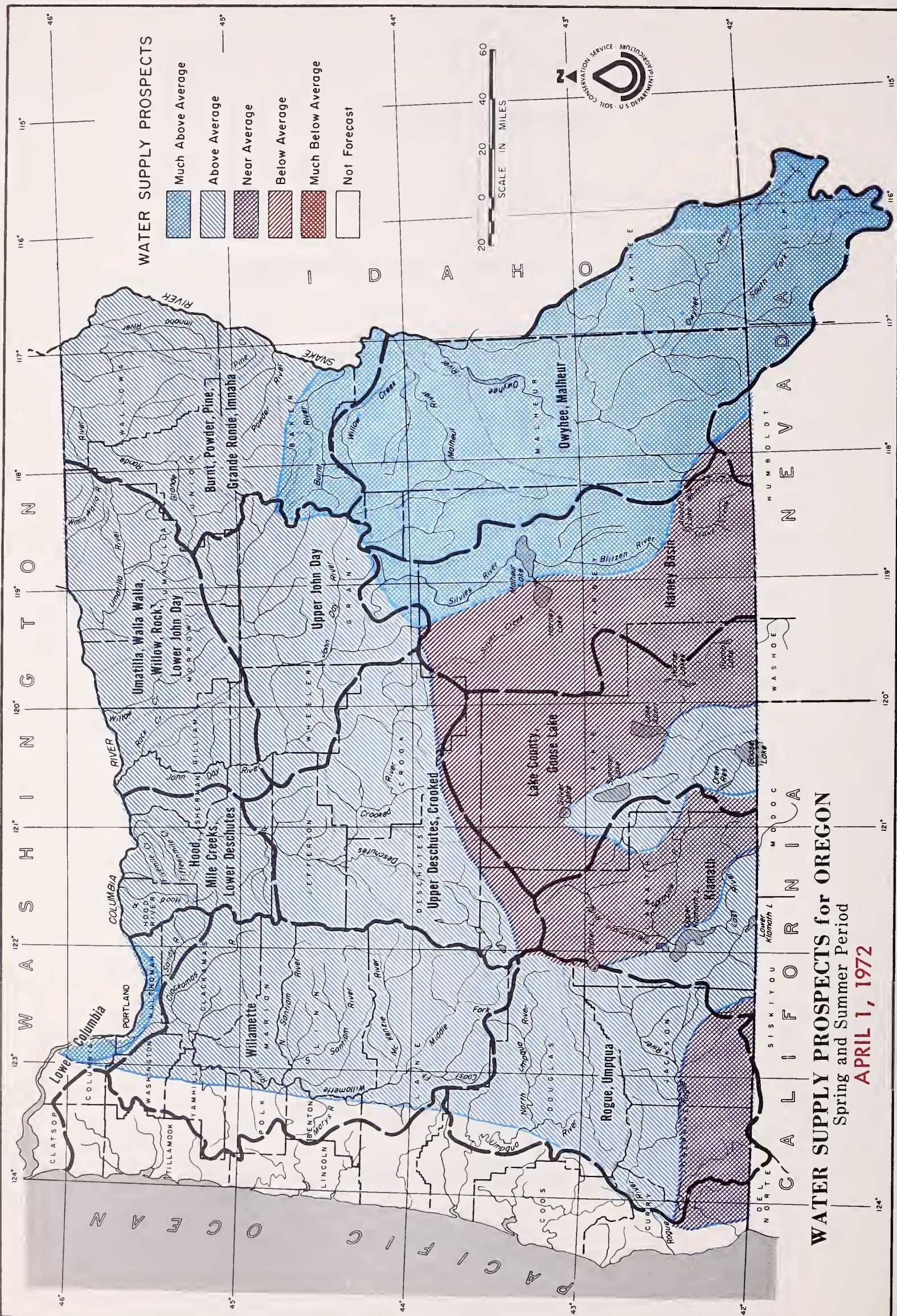
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# WATER SUPPLY OUTLOOK for OREGON

APRIL 1, 1972

Oregon's water supply outlook remains excellent. The mountain snowpack is near average to above in most locations. Mountain soils are saturated. Major irrigation reservoirs are full or nearly full. Streamflow this summer will be average to above average.

## SNOW COVER

Oregon's record March 1 snowpack experienced abnormal melt during the month due to above average rainfall and unusually warm temperatures. Only 6 courses set new April 1 record amounts of snow water content compared to last months 28. These courses are at the higher elevations. The snowpack is generally 100% to 150% of average.

## PRECIPITATION

Precipitation for March was above to much above average throughout the state. It ranged from 120% in Malheur, Hood River, and Wasco counties and up to 200% in Deschutes county.

## RESERVOIR STORAGE

Twenty-six major irrigation reservoirs are at 91% of their usable capacity as of April 1. Total contents are 2,924,000 acre feet. This compares to the average for April 1 of 2,222,000 acre feet.

## STREAMFLOW

March streamflow was 2 to 6 times normal for the month. Heaviest amount compared to normal was into Owyhee reservoir, the largest March volume since 1910.

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continued -

Forecasted streamflow for the April-September period on representative Oregon streams is as follows:

<u>STREAM</u>	<u>FORECAST</u> <u>As Percent of 1953-67 Avg.</u>
Owyhee net Inflow	139
Malheur near Drewsey	157
Deschutes at Benham Falls	115
Grande Ronde near La Grande	196
Willamette, Mid. Fk. nr. Oakridge	122
Upper Klamath Lake net Inflow	106
Rogue at Raygold	96
Silvies near Burns	130
John Day, Mid. Fk. nr. Ritter	100

This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, NOAA National Weather Service, and other cooperators.



# WATER SUPPLY OUTLOOK OWYHEE, MALHEUR WATERSHEDS OREGON

*as of*

APRIL 1, 1972

**U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER**

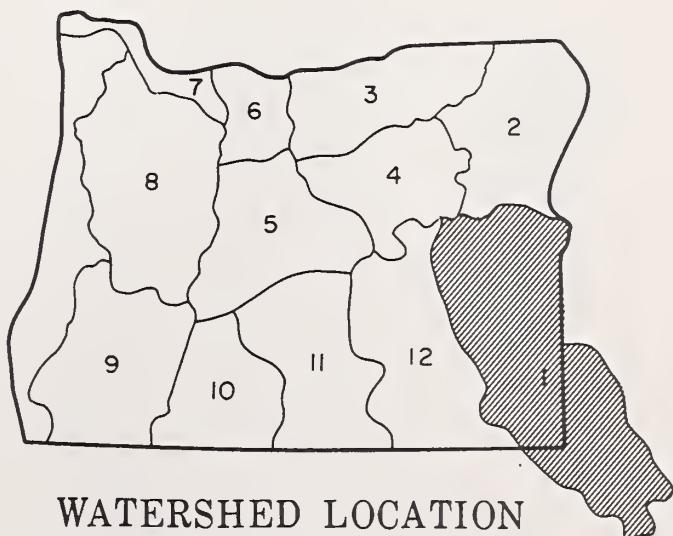
## GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK REMAINS MOSTLY EXCELLENT IN MALHEUR COUNTY. ABOVE AVERAGE RAINFALL AND UNUSUALLY WARM TEMPERATURES CAUSED AN ABNORMAL AMOUNT OF SNOW MELT DURING MARCH. STREAMFLOW WAS 3 TO 6 TIMES NORMAL FOR MARCH. AS A RESULT RESERVOIR STORAGE IS EXCELLENT. INFLOW INTO Owyhee was the greatest since 1910. THE SNOWPACK REMAINS AVERAGE TO ABOVE AVERAGE ON BOTH THE MALHEUR AND Owyhee DRAINAGES. MOUNTAIN SOILS ARE NEARLY SATURATED AND STREAMS WILL QUICKLY RESPOND TO ANY RAINFALL RECEIVED DURING THE NEXT SEVERAL MONTHS. STREAMFLOW DURING THE APRIL-JULY PERIOD WILL BE ABOVE AVERAGE.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Boulder Creek	Excellent	Average
Bully Creek	Average	Average
Cow Creek	Excellent	Average
Jordan Creek	Excellent	Average
Jordan Valley Irrig. Dist.	Excellent	Average
McDermitt Creek	Average	Average
Oregon Canyon Creek	Average	Average
Owyhee Project	Excellent	Excellent
Succor Creek	Excellent	Average
Tenmile Creek	Average	Fair
Vale-Oregon Irrig. Dist.	Excellent	Excellent
Warmsprings Irrig. Dist.	Excellent	Excellent
Willow Creek (Reservoired)	Excellent	Excellent



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year
Bully Creek at Warm Springs	16.8	147	March-May	11.4
Jordan Creek above Lone Tree Creek	129	154	April-July	85 <sup>m</sup>
Malheur near Drewsey	112	158	April-July	71
Malheur, North Fork at Beulah	113	157	April-Sept.	121
	73	133	April-July	72
	81	135	April-Sept.	55
Owyhee Reservoir, net Inflow	394	140	April-July	60
	417	139	April-Sept.	281
				300

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome	1000 250	May 31 June 24	May 24 June 20

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Antelope	70.0	41.9	60.0	19.1
Beulah	60.0	55.2	57.6	41.5
Bully Creek	30.0	25.7	29.0	17.4
Owyhee	715.0	695.6	698.5	476.8
Warmsprings	191.0	166.4	163.0	117.3

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Jordan Creek	1	100	--
Malheur River	3	106	113
Owyhee River	3	96	89

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Jordan Creek	4	118	160
Malheur River	5	71	99
Owyhee River	5	134	112

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.

# WATER SUPPLY OUTLOOK BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS OREGON

*as of*

APRIL 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

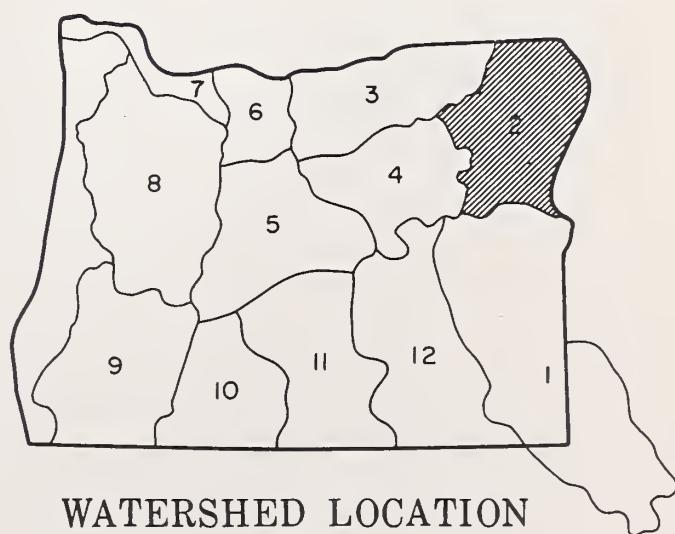
## GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR NORTHEASTERN OREGON REMAINS EXCELLENT. MUCH ABOVE AVERAGE RAINFALL AND UNUSUALLY WARM TEMPERATURES DID CAUSE AN ABNORMAL AMOUNT OF SNOW MELT FOR MARCH. STREAMFLOW WAS 2 TO 3 TIMES NORMAL FOR THE MONTH. AS A RESULT RESERVOIR STORAGE IS EXCELLENT. HOWEVER, THE MOUNTAIN SNOWPACK IS STILL AVERAGE TO ABOVE AVERAGE AND THE SOIL UNDER THE REMAINING SNOW IS COMPLETELY SATURATED. STREAMFLOW FOR APRIL THROUGH JULY WILL BE ABOVE AVERAGE.

### WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Alder Slope	Excellent	Excellent
Baker Valley	Excellent	Excellent
Big Creek	Excellent	Excellent
Clover Cr. (nr. N. Powder)	Excellent	Excellent
Cove	Excellent	Excellent
Durkee	Excellent	Excellent
Eagle Valley	Excellent	Excellent
Elgin	Excellent	Average
Enterprise-Joseph	Excellent	Excellent
Hereford-Bridgeport	Excellent	Excellent
Imnaha River	Excellent	Average
LaGrande-Island City	Excellent	Average
Lostine-Wallowa	Excellent	Average
No. Powder River-Wolf Creek	Excellent	Excellent
Pine Valley	Excellent	Excellent
Powder River-Elk Creek	Excellent	Excellent
Summerville	Excellent	Excellent
Sumpter Valley	Excellent	Excellent
Union-Hot Lake	Excellent	Excellent
Unity	Excellent	Excellent



WATERSHED LOCATION

Report prepared by

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## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year
Bear near Wallowa	84	127	April-Sept.	66
Burnt near Hereford	45	132	April-July	34
Catherine near Union	47	134	April-Sept.	35
Eagle Creek above Skull Creek	82	129	April-Sept.	85
Grande Ronde at La Grande	220	131	April-July	168 <sup>m</sup>
Hurricane near Joseph	239	131	April-Sept.	182 <sup>m</sup>
Imnaha at Imnaha	190	110	April-July	172
Lostine near Lostine	196	112	April-Sept.	190
Powder near Sumpter	142	114	April-Sept.	443
Wallowa, East Fork near Joseph <sup>d</sup>	64	118	April-July	125
	65	116	April-Sept.	156
	12.6	133	April-July	60
	16.0	133	April-Sept.	62
				9.5
				12.0

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Phillips Lake	73.5	67.2	63.2	--
Thief Valley	17.4	17.4	17.4	--
Unity	25.2	20.0	22.1	17.1
Wallowa Lake	37.5	20.6	22.9	23.2

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Burnt River	4	83	109
Grande Ronde River above La Grande	4	154	103
Powder River	5	89	119
Wallowa, Imnaha, Catherine Creek	6	90	131

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Burnt, Powder	2	109	144
Grande Ronde, Catherine Cr., Imnaha River	2	93	108

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# WATER SUPPLY OUTLOOK UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

OREGON

*as of*

APRIL 1, 1972

**U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER**

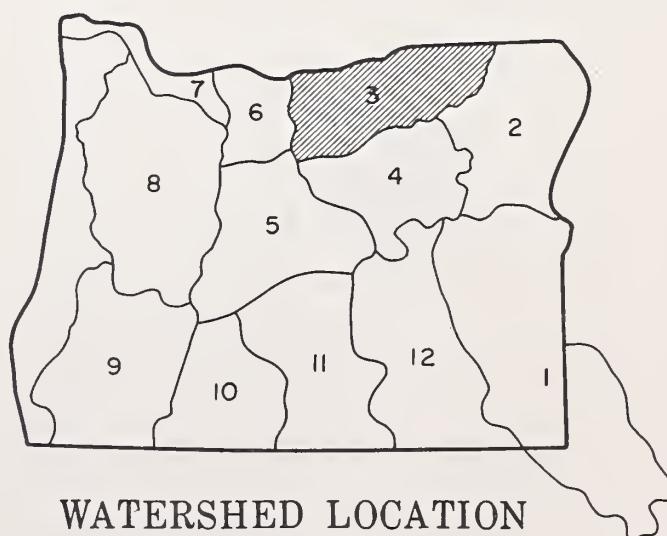
## GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR AREA 3 REMAINS MOSTLY EXCELLENT. SOME LOWER ELEVATION WATERSHEDS WILL SUPPLY ONLY AVERAGE AMOUNTS OF WATER DURING THE LATE SEASON BECAUSE OF THE EARLY RUNOFF THAT HAS OCCURRED. THIS EARLY RUNOFF WAS DUE TO UNUSUALLY WARM TEMPERATURES AND MUCH ABOVE AVERAGE RAINFALL DURING MARCH. STREAMFLOW WAS 2 TO 3 TIMES AVERAGE DURING THE MONTH. RESERVOIR STORAGE IS EXCELLENT, EXCEPT FOR COLD SPRINGS, WHICH WAS UNABLE TO FILL BECAUSE OF A CANAL BREAK EARLY IN MARCH. SOILS ON MOUNTAIN WATERSHEDS ARE SATURATED AND STREAMS WILL RESPOND TO ANY SUBSEQUENT RAINFALL. THE SNOWPACK IS NOW NEAR AVERAGE TO ABOVE AVERAGE.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Walla Walla River, No. Fk.	Excellent	Average
Walla Walla River, So. Fk.	Excellent	Average
Walla Walla River, Main	Excellent	Average
Walla Walla River, Little	Excellent	Average
Couse Creek	Excellent	Average
Dry Creek	Excellent	Average
Pine Creek	Excellent	Average
Umatilla River, Main	Excellent	Average
Wildhorse Creek	Excellent	Average
Umatilla R. (Cold Springs Reservoir)	Average	Average
Umatilla R. (McKay Res.)	Excellent	Excellent
McKay Creek	Excellent	Excellent
Birch Creek	Excellent	Average
Butter Creek	Excellent	Average
Willow Creek	Excellent	Average
Rhea Creek	Excellent	Average
Rock Creek (John Day Tributary)	Excellent	Average



WATERSHED LOCATION

Report prepared by

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# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Birch Creek at Rieth	21.6	117	April-July	14.6	18.4
Butter Creek near Pine City	8.6	100	April-July	7.5	8.6
McKay near Pilot Rock	28	100	April-Sept.		28
Umatilla near Gibbon	78	105	April-July	73	74
Umatilla at Pendleton	84	105	April-Sept.	79	80
Umatilla at Pendleton	150	100	April-July	140	150
Walla Walla, North Fork near Milton	155	100	April-Sept.	145	155
Walla Walla, North Fork near Milton	19.2	125	April-July	17.4	15.4
Walla Walla, South Fork near Milton	19.7	123	April-Sept.	18.4	16.0
Walla Walla, South Fork near Milton	60	111	April-July	69	54
Walla Walla, South Fork near Milton	74	110	April-Sept.	85	67

## FORECAST DATE of LOW FLOW VALUES

## RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value	Usable Storage				
				RESERVOIR	Usable Capacity	This Year		
Umatilla at Pendleton	550	June 20	May 22	Cold Springs McKay	50.0 73.8	43.4 63.9	50.0 49.2	48.8 47.1

## SOIL MOISTURE

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:		THIS YEAR'S SNOW WATER AS PERCENT OF			
		Last Year	Average <sup>i</sup>	Sub-Watershed	Number of Courses Averaged		
Umatilla, Walla Walla, McKay Creek	3	100	101	McKay Creek Umatilla River Walla Walla River	3 3 2	114 116 123	92 116 138

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK UPPER JOHN DAY WATERSHEDS OREGON

*as of*

APRIL 1, 1972

**U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER**

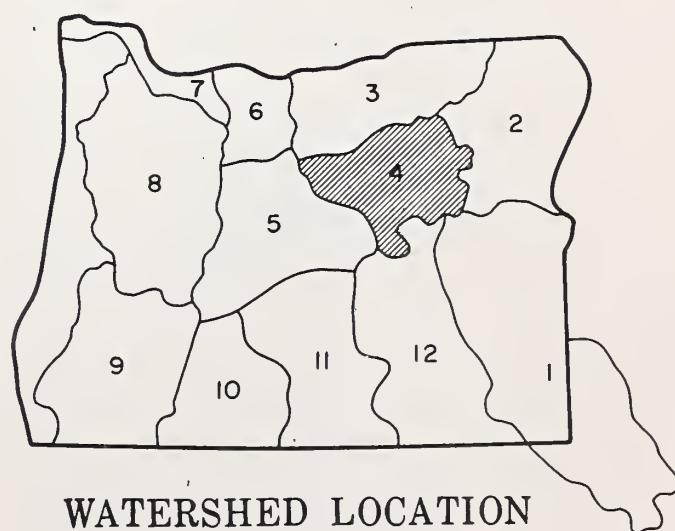
## GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK REMAINS EXCELLENT ON THE JOHN DAY. UNUSUALLY WARM TEMPERATURES AND MUCH ABOVE NORMAL RAINFALL CAUSED AN ABNORMAL AMOUNT OF MELT DURING MARCH. STREAMFLOW WAS 3 TO 4 TIMES AVERAGE DURING THE MONTH. THE SNOWPACK REMAINS NEAR AVERAGE FOR APRIL 1 AND THE SOILS UNDER THE PACK ARE SATURATED. STREAMFLOW DURING THE APRIL-JULY PERIOD WILL BE AVERAGE TO ABOVE AVERAGE.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Beech Creek	Average	Average
Beech Creek-Fox-Long Cr.	Average	Average
Bridge-Mountain Creeks	Average	Average
Camas Creek	Average	Average
Cherry Creek	Average	Average
Indian-Pine Creeks	Excellent	Average
John Day River, Main Fork	Average	Average
John Day River, Mid. Fork	Average	Average
John Day River, N. Fork	Average	Average
John Day River, S. Fork	Average	Average
Monument-Kimberly	Average	Average
Strawberry Creek	Excellent	Average



WATERSHED LOCATION

Report prepared by

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PORTLAND, OREGON 97205

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year	Average <sup>i</sup>
Camas Creek near Ukiah	39	104	April-July	38	
	40	102	April-Sept.	39	
John Day at Prairie City	48	114	April-July	42	
	53	115	April-Sept.	46	
John Day, Middle Fork at Ritter	112	100	April-July	136	112
	116	100	April-Sept.	140	116
John Day, North Fork at Monument	613	108	April-July		568
	636	109	April-Sept.		583
Strawberry near Prairie City	8.9	117	April-July	9.2	7.7
	9.8	117	April-Sept.	10.1	8.4

## SOIL MOISTURE

### SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:		RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>			Last Year	Average <sup>i</sup>
John Day abv. Dayville	7	105	130	John Day, North Fork	7	92	105
John Day, North Fork	2	104	120	John Day abv. Dayville	5	82	102

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67 ~~15~~ year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK UPPER DESCHUTES, CROOKED WATERSHEDS OREGON

*as of*

APRIL 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

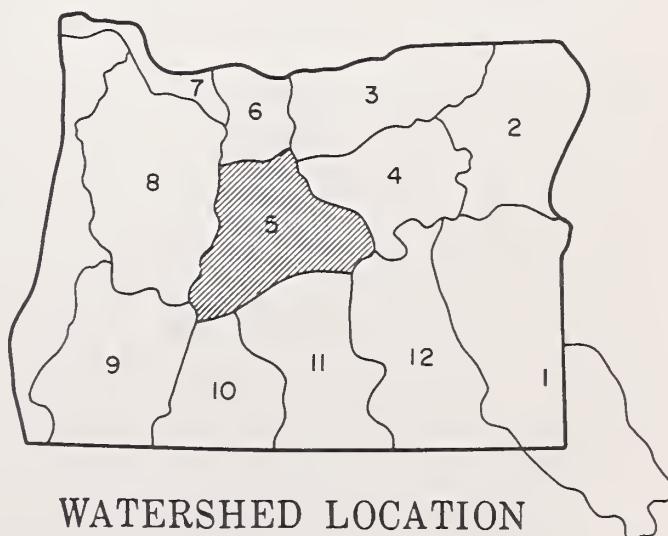
## GENERAL OUTLOOK

DESCHUTES AND CROOK COUNTY WATER USERS WITH ACCESS TO STORED WATER WILL HAVE EXCELLENT WATER SUPPLIES, AS WILL USERS IN THE TUMALO AND SQUAW CREEK DRAINAGES, WHILE USERS DEPENDENT ON STREAMS DRAINING THE LOWER ELEVATIONS OF THE OCHOCOES WILL HAVE AVERAGE LATE SEASON WATER. THE SNOWPACK AT LOWER AND MIDELEVATIONS WAS REDUCED TO AVERAGE AND BELOW AVERAGE AMOUNTS, WHILE SNOW COURSES AT THE HIGHER ELEVATIONS WERE AT NEAR RECORD LEVELS. THE NEW DUTCHMAN FLAT SNOW COURSE NEAR MT. BACHELOR SET A NEW ALL TIME APRIL 1 RECORD WATER CONTENT OF 80.2 INCHES. AN UNUSUALLY WARM MARCH COMBINED WITH PRECIPITATION THAT WAS TWICE THE NORMAL AMOUNT RESULTED IN STREAM-FLOWS THAT WERE 2 TO 4 TIMES THE AVERAGE FOR MARCH. RESERVOIRS ARE STORING MUCH ABOVE AVERAGE AMOUNTS WITH SOME AT OR NEAR THEIR STORAGE CAPACITY.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Arnold Irrigation District	Excellent	Average
Bear Creek	Average	Fair
Beaver Creek	Average	Average
Camp Creek	Average	Fair
Central Ore. Irrig. Dist.	Excellent	Excellent
Crooked River	Excellent	Excellent
Deschutes River	Excellent	Excellent
Hay-Trout Creeks	Average	Average
Lone Pine Irrig. Dist.	Excellent	Excellent
Mill Creek	Average	Average
North Unit Irrig. Dist.	Excellent	Excellent
Ochoco Creek	Excellent	Average
Sisters Irrigation Dist.	Excellent	Average
Snow Creek Irrig. Dist	Excellent	Average
Squaw Creek Irrig. Dist.	Excellent	Average
Swalley Ditch	Excellent	Excellent
Tumalo Project	Excellent	Excellent
Walker Basin Irrig. Dist.	Excellent	Excellent



WATERSHED LOCATION

Report prepared by

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1218 S.W. WASHINGTON ST.  
PORTLAND, OREGON 97205

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year	Average <sup>i</sup>
Beaver Creek near Paulina	22	110	April-July		20
	22	110	April-Sept.		20
Crane Prairie Reservoir Total Inflow	104	126	April-July		83
	160	127	April-Sept.		126
Crescent at Crescent Lake	39	176	April-July	28	22
	40	143	April-Sept.	33	28
Crooked near Post	103	104	April-July		99
	104	103	April-Sept.		101
Deschutes at Benham Falls <sup>d</sup>	461	117	April-July		393
	687	115	April-Sept.		596
Deschutes below Snow Creek	88	134	April-Sept.		66
Deschutes, Little near LaPine <sup>d</sup>	96	116	April-July	125	83
	104	109	April-Sept.	141	95
Ochoco Reservoir net Inflow	22	96	April-Sept.		23
Odell near Crescent	35	118	April-Sept.		30
Squaw near Sisters	56	110	April-Sept.	70	51
Tumalo near Bend <sup>d</sup>	59	120	April-Sept.		49

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Crane Prairie net Inflow	300	*	July 15
Deschutes at Bend	1500	*	July 1
Little Deschutes near La Pine	400	June 9	June 7
	200	July 8	July 8

\*Will not recede to low flow value.

## RESERVOIR STORAGE (Thousand Ac. Ft.)

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Crane Prairie	55.3	59.2	46.1	47.6
Crescent Lake	86.9	83.2	49.3	49.9
Ochoco	47.5	46.3	42.9	33.2
Prineville	153.0	137.0	133.4	115.8
Wickiup	200.0	196.4	184.0	194.4

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Crooked R., Upper Deschutes River	2	104	110

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Crooked, Ochoco	4	88	97
Deschutes abv. Wickiup	3	100	141
Little Deschutes	4	74	113
Tumalo & Squaw Crs.	3	94	139

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# WATER SUPPLY OUTLOOK HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS OREGON

*as of*

APRIL 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

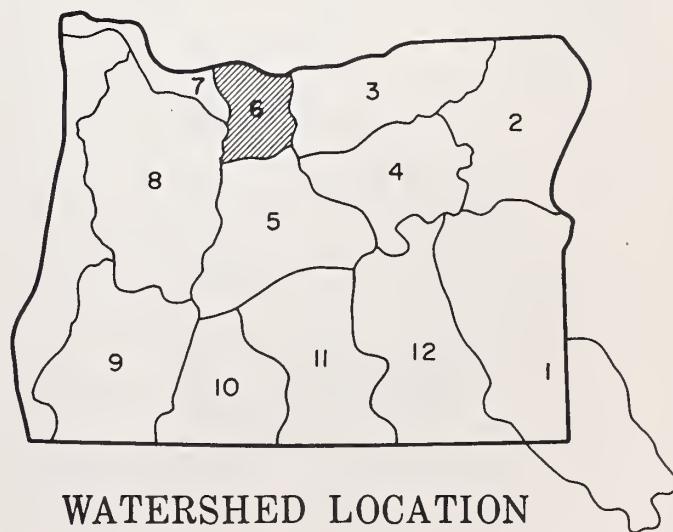
## GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR HOOD RIVER AND WASCO COUNTIES REMAINS MOSTLY EXCELLENT. ABOVE AVERAGE RAINFALL AND UNUSUALLY WARM TEMPERATURE CAUSED AN ABNORMAL AMOUNT OF SNOW MELT DURING MARCH. RUNOFF ON ALL STREAMS WAS 2 TO 3 TIMES NORMAL. THE SNOWPACK REMAINS ABOVE AVERAGE, HOWEVER, EXCEPT ON LOW ELEVATION WATERSHEDS. ONLY FAIR SUPPLIES CAN BE EXPECTED FROM THESE LOWER ELEVATION STREAMS DURING THE LATE SEASON.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Calapooya	Excellent	Average
Clackamas	Excellent	Excellent
McKenzie	Excellent	Excellent
Molalla	Excellent	Average
Santiam, North	Excellent	Excellent
Santiam, South	Excellent	Excellent
Willamette, Coast Fork	Excellent	Excellent
Willamette, Middle Fork	Excellent	Excellent



WATERSHED LOCATION

Report prepared by

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1218 S.W. WASHINGTON ST.  
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# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year	Average <sup>i</sup>
Hood River near Tucker Bridge	327	116	April-July	282	
	390	116	April-Sept.	336	
Hood, West Fork near Dee	154	110	April-July	140	
	183	113	April-Sept.	161	
White below Tygh Valley	182	143	April-July	128	
	208	144	April-Sept.	144	

## FORECAST DATE of LOW FLOW VALUES

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value	RESERVOIR	Usable Capacity	Usable Storage		
						This Year	Last Year	Average <sup>i</sup>
Clear Branch Inflow	*51	July 15-31	**39	Clear Lake (Wasco)	11.9	10.6	5.6	4.0
*Average cfs forecast to flow for this two-week period.								
**Average cfs for period of record.								

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Hood River	6	82	132
Mile Creeks	3	27	43
White River	3	93	149

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Hood River, Mile Creeks	1	99	--

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

*as of*

APRIL 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

## GENERAL OUTLOOK

THE COLUMBIA BASIN HAS A NORMAL TO RECORD BREAKING SNOWPACK. THE SNOW IS PARTICULARLY HEAVY PERCENTAGEWISE IN THE UPPER COLUMBIA REGION OF CANADA, NORTHERN IDAHO, MONTANA AND WASHINGTON. THESE ARE THE MAJOR WATER PRODUCING AREAS FOR THE COLUMBIA. MOUNTAIN SOILS UNDERNEATH THE SNOWPACK ARE SATURATED. THE VOLUME FORECAST FOR THE COLUMBIA AT THE DALLES DURING THE APRIL-SEPT. PERIOD IS 139,000,000 ACRE FEET. THIS IS THE LARGEST VOLUME SINCE 1894. A FORECASTED STAGE NEAR 25 FEET AT VANCOUVER DURING JUNE CAN REASONABLY BE EXPECTED.

## COLUMBIA RIVER BASIN



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# SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Sandy River	2	99	154

## STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year
Columbia at The Dalles <sup>d</sup>	97,800 139,000	135 132	April-June April-Sept.	72,406 105,176
Sandy River near Marmot	410 465	114 113	April-July April-Sept.	359 413

## HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STREAMFLOW <sup>d</sup> (1,000 A.F.)			PEAK (1,000 cfs)	DATE
	APR.— SEPT.	APR.— JUNE	MAY— JUNE		
1953	100,600	64,900	55,800	609	June 17
1954	119,500	70,500	59,300	561	May 23
1955	99,500	58,300	50,300	545	June 26
1956	131,400	96,900	75,800	815	June 3
1957	105,700	80,500	67,200	700	May 22
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,903	65,112	622	June 10
1953-67 Avg.	105,181	72,408	59,689	574	

## LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu.)	FLOW AT THE DALLES (1,000 c.f.s.)	DRAINAGE DISTRICT PUMPHOUSE						
		SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records.



# WATER SUPPLY OUTLOOK WILLAMETTE WATERSHEDS OREGON

*as of*

APRIL 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

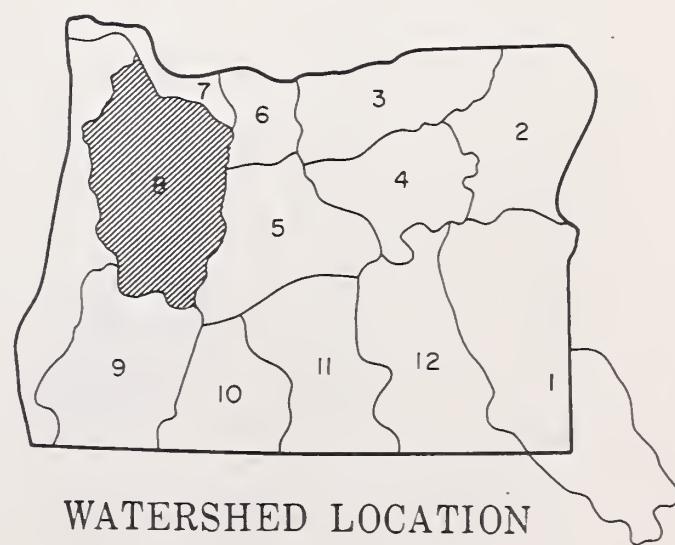
## GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THE WILLAMETTE VALLEY REMAINS EXCELLENT. MUCH ABOVE AVERAGE RAINFALL AND UNUSUALLY WARM TEMPERATURES CAUSED AN ABNORMAL AMOUNT OF SNOWMELT FOR MARCH. STREAMFLOW WAS 2 TO 3 TIMES NORMAL WITH THE MOLUME MEASURED ON THE MIDDLE FORK OF THE WILLAMETTE NEAR OAKRIDGE THE HIGHEST ON RECORD. RESERVOIRS ARE STORING ABOVE AVERAGE AMOUNTS DUE TO THE HEAVY STREAMFLOW. THE SNOWPACK IS NEAR AVERAGE ON THE ROW RIVER AND MUCH ABOVE AVERAGE ALONG THE CREST OF THE CASCADES.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Calapooya	Excellent	Excellent
Clackamas	Excellent	Excellent
McKenzie	Excellent	Excellent
Molalla	Excellent	Excellent
Santiam, North	Excellent	Excellent
Santiam, South	Excellent	Excellent
Willamette, Coast Fork	Excellent	Excellent
Willamette, Middle Fork	Excellent	Excellent



WATERSHED LOCATION

Report prepared by

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# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year	Average <sup>i</sup>
Clackamas at Estacada	738	107	April-July	977	689
	848	106	April-Sept.	1115	800
Clackamas above Three Lynx	597	115	April-July	746	517
	696	114	April-Sept.	866	610
McKenzie at McKenzie Bridge	537	116	April-July		465
	700	114	April-Sept.		614
McKenzie near Vida	1248	115	April-July		1087
	1503	114	April-Sept.		1321
McKenzie, South Fork near Rainbow	280	127	April-July		221
	308	122	April-Sept.		252
Oak Grove Fork above Power Intake	141	113	April-July	178	125
	189	116	April-Sept.	224	163
Row near Dorena	112	106	April-July		106
	116	105	April-Sept.		110
Santiam, North at Mehama <sup>d</sup>	929	116	April-July		800
	1032	114	April-Sept.		901
Santiam, South at Waterloo	679	114	April-July		596
	714	113	April-Sept.		633
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge <sup>d</sup>	913	126	April-July		725
	1014	122	April-Sept.		828
Willamette, No. Fk. of Mid. Fk. near Oakridge	209	106	April-July		198
	227	104	April-Sept.		219
Willamette at Salem <sup>d</sup>	5659	120	April-July		4696
	6161	118	April-Sept.		5199

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Clackamas River	2	72	117
McKenzie River	3	99	153
Row River	2	63	103
Santiam River	4	75	133
Willamette, Mid. Fk.	5	89	130

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Blue River	85.6*	54.4	51.2	--
Cottage Grove	30.0*	17.0	14.9	17.2
Cougar	155.2*	96.2	91.3	--
Detroit	299.9*	196.6	173.3	170.1
Dorena	70.5*	39.3	35.4	38.6
Fall Creek	115.0*	78.2	69.5	--
Fern Ridge	94.2*	87.0	87.4	68.8
Foster	30.0*	10.5	5.6	--
Green Peter	270.0*	173.3	162.1	--
Hills Creek	200.0*	137.9	129.4	120.3
Lookout Point	337.2*	237.6	210.0	195.6
Timothy Lake	61.7	59.5	55.0	49.4

\*Multiple purpose reservoir--space reserved primarily for flood runoff.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# WATER SUPPLY OUTLOOK ROGUE, UMPQUA, WATERSHEDS OREGON

*as of*

APRIL 1, 1972

U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

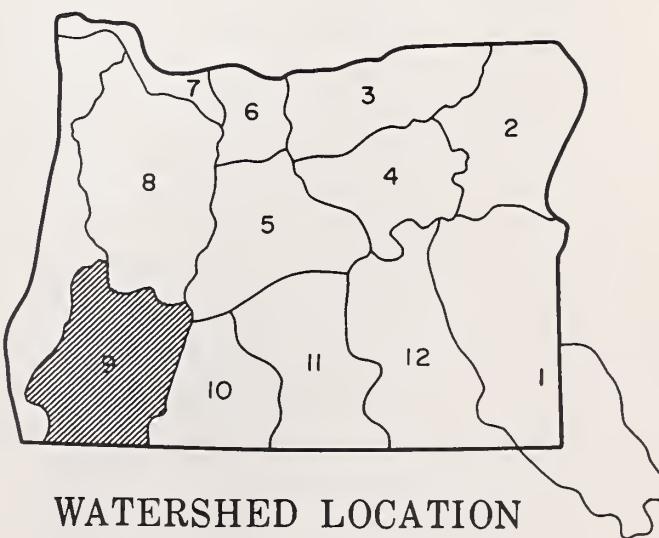
## GENERAL OUTLOOK

ABOVE AVERAGE TEMPERATURES AND RAINFALL HAVE REDUCED THE APRIL 1 SNOWPACK TO NEAR NORMAL LEVELS IN MOST OF THE AREA, RANGING FROM 130% ON THE ROGUE DRAINAGE TO 46% ON THE ILLINOIS. WATER SUPPLIES WILL RANGE FROM EXCELLENT ON THE ROGUE RIVER, AND FOR AREAS WITH ACCESS TO STORED WATER, TO BELOW AVERAGE ON THE ILLINOIS DRAINAGE. BASIN PRECIPITATION WAS 46% ABOVE AVERAGE. MOUNTAIN SOILS ARE WELL PRIMED AND WILL FAVOR RUNOFF FROM SPRING PRECIPITATION. STREAMFLOW WAS 2 TO 4 TIMES THE AVERAGE FOR MARCH. ALL RESERVOIRS ARE NEARLY FULL OR FULL AND SPILLING. TOTALS OF FIVE AREA RESERVOIRS SHOWED THEY WERE HOLDING 99% OF CAPACITY ON MARCH 31.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Althouse Creek	Average	Average
Applegate River, Big	Average	Average
Applegate River, Little	Average	Average
Ashland Creek	Average	Average
Butte Creek, Big	Average	Average
Butte Creek, Little	Excellent	Average
Cow Creek	Average	Average
Deer Creek	Average	Average
Elk Creek	Average	Average
Emigrant Creek (abv. Res.)	Average	Fair
Evans Creek	Average	Fair
Gold Hill Irrigation Dist.	Excellent	Average
Grants Pass Irrigation Dist.	Excellent	Average
Grave Creek	Average	Average
Illinois River, East Fork	Average	Fair
Illinois River, West Fork	Average	Fair
Jump-off-Joe Creek	Average	Average
Neil Creek	Average	Average
Red Blanket Creek	Average	Average
Rogue River	Excellent	Average
Sucker Creek	Average	Fair
Table Rock Irrig. Dist.	Excellent	Average
Thompson Creek	Average	Fair
Wagner Creek	Average	Fair
Williams Creek	Average	Fair



WATERSHED LOCATION

Report prepared by  
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# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Applegate near Copper	126	90	April-Sept.		140
Clearwater above Trap Creek <sup>d</sup>	90	123	April-Sept.		73
Fourmile Lake net Inflow	7.6	188	April-Sept.		4.1
Hyatt Reservoir net Inflow <sup>d</sup>	3.1	60	April-July		5.2
Illinois River near Kerby	186	91	April-July		205
Little Butte, N. Fk. at Fish Lk. nr. Lake Cr. <sup>d</sup>	192	91	April-Sept.	22.7	14.4
Little Butte, So. Fk. nr. Lake Creek	13.7	96	April-Sept.	18.0	33
Rogue above Prospect	31	88	April-July		269
Rogue, South Fork near Prospect <sup>d</sup>	268	100	April-July		326
Rogue at Raygold near Central Point	325	100	April-Sept.		62
Rogue at Grants Pass	55	89	April-July		74
Umpqua, No. blw. Lemolo Res. nr Toketee Falls <sup>d</sup>	65	88	April-Sept.		781
	748	96	April-July		941
	907	96	April-Sept.		940
	857	91	April-Sept.		176
	197	112	April-Sept.		

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Little Butte Creek, South Fork	100	June 1	May 27
Rogue at Raygold	1200	Sept. 2	Aug. 7

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Emigrant Lake	39.0	38.8	38.1	35.0*
Fish Lake	7.8	8.0	6.4	6.0
Fourmile Lake	16.1	14.4	12.0	10.6
Howard Prairie	60.0	60.6	60.6	32.7
Hyatt Prairie	16.1	15.5	15.8	11.9

\*Average for years of record (in base period) after reconstruction.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Applegate	3	73	83
Bear Creek	2	57	80
Butte Creek	4	52	86
Illinois River	3	44	46
North Umpqua	3	70	110
Rogue River	6	93	130

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-6 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK KLAMATH WATERSHEDS OREGON

*as of*

APRIL 1, 1972

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U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

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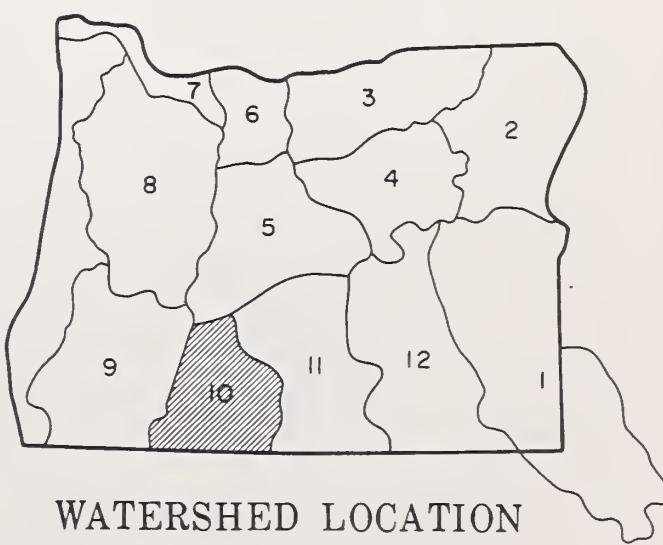
## GENERAL OUTLOOK

UNSEASONABLY WARM TEMPERATURES AND MUCH ABOVE AVERAGE PRECIPITATION DURING MARCH RESULTED IN MUCH ABOVE AVERAGE STREAMFLOW AND REDUCED THE LOW AND MIDELEVATION SNOWPACKS TO AVERAGE OR BELOW AVERAGE AMOUNTS ON APRIL FIRST. THE SPRING WATER SUPPLIES WILL RANGE FROM EXCELLENT ON THE KLAMATH AND LOST RIVERS TO AVERAGE ON OTHER DRAINAGES. LATE SEASON WATER SUPPLIES WILL BE AVERAGE TO FAIR. PRECIPITATION DURING MARCH WAS 181% OF AVERAGE. SOIL MOISTURE IS NEAR FIELD CAPACITY. RESERVOIRS ARE HOLDING ABOVE AVERAGE AMOUNTS OF WATER AND SHOULD FILL OR NEARLY FILL DURING THE RUNOFF SEASON. THE KLAMATH LAKE NET INFLOW WAS TWO TIMES THE AVERAGE FOR MARCH.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ft. Klamath Valley	Excellent	Average
Lost River (Clear Lake)	Excellent	Average
Lost River (Gerber)	Excellent	Average
Lost River (Willow Res.)	Excellent	Average
Sprague River	Average	Fair
Upper Klamath Lake	Average	Fair
Williamson River	Average	Fair



WATERSHED LOCATION

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Clear Lake Reservoir Inflow <sup>k</sup>	31	81	April-July	38	
	32	81	April-Sept.	40	
Gerber Reservoir Inflow <sup>k</sup>	14.2	74	April-July	19.1	
	14.9	76	April-Sept.	19.5	
Sprague near Chiloquin	284	108	April-July	263	
	319	107	April-Sept.	296	
Upper Klamath Lake net Inflow <sup>k</sup>	520	102	April-July	511	
	658	106	April-Sept.	619	
Williamson below Sprague River	528	111	April-Sept.	475	

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Clear Lake	440.2	410.9	400.2	250.4
Gerber	94.0	93.0	90.8	56.6
Upper Klamath Lake	584.0	487.3	524.2	467.4

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Lost River	4	74	102
Sprague River	3	51	67
Upper Klamath	8	67	92
Williamson River	3	58	84

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF	
		Last Year	Average <sup>i</sup>
Upper Klamath	1	102	117

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK LAKE COUNTY, GOOSE LAKE WATERSHEDS OREGON

*as of*

APRIL 1, 1972

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U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

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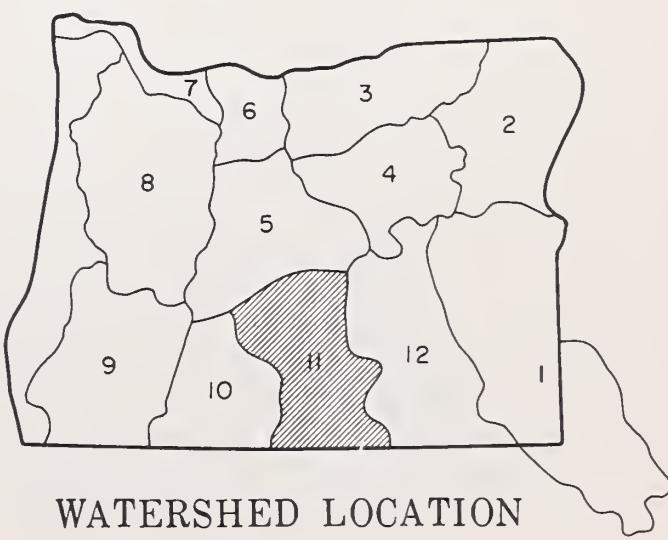
## GENERAL OUTLOOK

EXCELLENT TO AVERAGE EARLY SEASON WATER SUPPLIES ARE IN PROSPECT FOR LAKE COUNTY WATER USERS, WITH LATE SEASON SUPPLIES AVERAGE TO FAIR, DEPENDING ON ACCESS TO STORED WATER. THE MOUNTAIN SNOWPACK WAS REDUCED TO NEAR AVERAGE TO BELOW AVERAGE AMOUNTS ON APRIL 1 BY UNUSUALLY WARM TEMPERATURES DURING MARCH. RAINFALL WAS SLIGHTLY ABOVE AVERAGE DURING THE MONTH. STREAMFLOW WAS ABOVE AVERAGE DURING THE MONTH. SOILS ARE WELL WETTED. RESERVOIRS ARE FULL OR SHOULD FILL DURING THE RUNOFF SEASON.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Chewaucan River	Excellent	Average
Crooked Creek	Average	Fair
Deep Creek	Excellent	Average
Dry Creek	Excellent	Average
East Side Goose Lake	Average	Fair
Guano Lake	Average	Fair
Honey Creek	Average	Fair
Lakeview Water Users Assn.	Excellent	Average
Rock Creek (Hart Mountain)	Average	Fair
Silver-Buck Creeks	Average	Fair
Summer Lake	Excellent	Average
Thomas Creek	Average	Fair
Twenty-mile Creek	Average	Average
Warner Lakes	Average	Average



WATERSHED LOCATION

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average <sup>i</sup>
Chewaucan near Paisley	73	92	April-July	155	79
	76	90	April-Sept.	161	84
Deep above Adel	77	121	April-July	131	64
	80	123	April-Sept.	135	65
Drews Reservoir net Inflow	27	90	April-July		30
Honey near Plush	18.3	116	April-July	40	15.9
	19.4	121	April-Sept.	41	16.1
Silver Creek near Silver Lake	6.7	36	April-July	33	18.6
	8.2	41	April-Sept.	37	20
Twentymile near Adel	20.1	120	April-July		16.8
	20.6	120	April-Sept.		17.2

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>i</sup>
Chewaucan, Silver Creek, Drew Creek	1	102	117
Honey, Deep, 20-mi. Crs.	1	98	106

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>i</sup>
Cottonwood	8.7	6.5	8.7	4.4*
Drews	63.0	63.0	63.5	44.6
Thompson Valley	19.5	b	--	12.7

\*Average for years of record (in base period) after reconstruction.

## SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>i</sup>
Chewaucan River	3	51	72
Deep Creek	3	78	103
Drew Creek	3	7	10
Honey Creek	3	70	87
Silver Creek	3	8	15
Twentymile Creek	3	78	92

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.



# WATER SUPPLY OUTLOOK HARNEY BASIN WATERSHEDS OREGON

*as of*

APRIL 1, 1972

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U. S. D. A. SOIL CONSERVATION SERVICE  
OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

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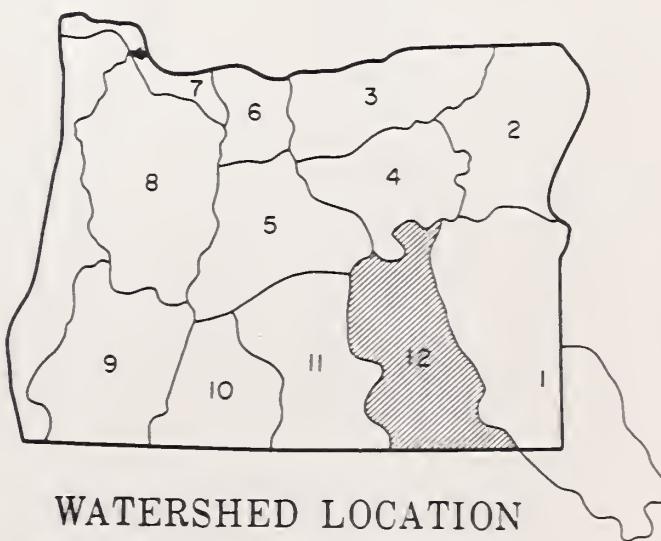
## GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR WATER USERS ON THE DONNER AND BLITZEN AND SILVIES RIVER DRAINAGES, WITH AVERAGE WATER SUPPLIES AVAILABLE FOR OTHER STREAMS IN THE BASIN. UNSEASONABLY WARM TEMPERATURES AND MUCH ABOVE AVERAGE PRECIPITATION REDUCED THE LOW AND MID-ELEVATION SNOWPACK TO AVERAGE AND BELOW AVERAGE ON APRIL 1.

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Catlow Valley	Average	Average
Cow Creek	Average	Fair
Donner und Blitzen River	Excellent	Excellent
Mill-Coffeepot Creeks	Average	Fair
Rattlesnake Creek	Average	Fair
Silver Creek	Average	Fair
Silvies River	Excellent	Average
Soldier-Prather Creek	Average	Fair
Trout Creek	Average	Average
Whitehorse Creek	Average	Average



WATERSHED LOCATION

Report prepared by

T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST.  
PORTLAND, OREGON 97205

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year
Donner und Blitzen near Frenchglen	74	148	April-July	51
	79	144	April-Sept.	55
Silver near Riley	17.2	95	April-July	23
Silvies near Burns	105	130	April-July	128
	108	130	April-Sept.	131
Trout near Denio	7.7	109	April-July	14.9
	7.6	102	April-Sept.	15.6

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:		RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average i			Last Year	Average i
Silvies River, Silver Cr.	2	100	110	Donner und Blitzen R.	4	110	145
Trout Cr., Donner und Blitzen River	1	99	122	Silver Creek	3	88	80
				Silvies River	4	72	97
				Trout Creek	3	142	46

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

# BASIC DATA SUPPLEMENT 1

APRIL 1, 1972

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches) Last Yr. Ave. <sup>i</sup>

### OWYHEE, MALHEUR WATERSHED

Antelope Ridge (Ida.)	3/29	25	9.5	7.7	4.0 <sup>h</sup>
Battle Creek <sup>e</sup> (Ida.)	3/29	0	0.0	0.0	2.0 <sup>m</sup>
Bear Creek <sup>e</sup> (Nev.)	3/27	63	25.1	27.5	19.1
Big Bend (Nev.)	3/23	29	10.3	12.0	8.1
Blue Mountain Springs	3/29	47	19.0	20.9	15.5
Blue Mountain Springs Pillow	3/29		11.9	11.0	- -
Buck Pasture <sup>e</sup>	3/29	0	0.0	T	2.2 <sup>m</sup>
Buckskin, Lower (Nev.)	3/30	12	3.9	8.5	7.0
Buckskin, Upper (Nev.)	3/30	32	13.3	7.7	9.2
Bull Basin <sup>e</sup> (Ida.)	3/29	T	T	0.0	0.4 <sup>m</sup>
Bully Creek <sup>e</sup>	3/29	0	0.0	T	0.7 <sup>m</sup>
Call Meadow <sup>e</sup>	3/29	0	0.0	4.1	3.1 <sup>m</sup>
Columbia Basin <sup>e</sup> (Nev.)	3/31	12	3.4	5.8	- -
Cottonwood-Indian <sup>e</sup>	3/29	0	0.0	0.0	0.1
Crane Prairie	3/29	22	8.7	12.2	8.6
Disaster Peak (Nev.)	3/29	31	13.5	11.5	9.5
Eldorado Pass	3/30	0	0.0	1.5	0.6 <sup>h</sup>
Fawn Creek <sup>e</sup> (Nev.)	3/31	0	0.0	4.9	- -
Fish Creek	3/30	74	30.7	33.1	25.0
Fish Creek Pillow*	3/30		43.3	- -	- -
Flag Prairie <sup>e</sup>	3/29	0	0.0	7.1	1.8 <sup>m</sup>
Fox Creek (Nev.)	3/27	22	8.2	12.8	8.9 <sup>h</sup>
Fry Canyon (Nev.)	3/23	9	2.6	5.0	6.3
Gold Creek (Nev.)	3/23	12	3.7	7.3	4.7
Granite Peak (Nev.)	3/30	46	18.1	20.8	12.6 <sup>h</sup>
Hyde Pasture <sup>e</sup> (Ida.)	3/29	10	3.8	2.0	2.0 <sup>m</sup>
Jack Creek, Lower (Nev.)	3/28	0	0.0	0.0	2.8
Jack Creek, Upper (Nev.)	3/28	27	9.7	12.1	9.8
Jack Peak (Nev.)	3/31	57	20.0	33.4	25.7 <sup>h</sup>
Lake Creek R.S.	3/29	23	9.4	12.8	9.3
Laurel Draw (Nev.)	3/31	15	6.0	6.2	7.2 <sup>h</sup>
Logan Valley <sup>e</sup>	3/29	18	7.3	7.1	5.4 <sup>m</sup>
Lookout Butte <sup>e</sup>	3/29	0	0.0	0.0	T <sup>m</sup>
Louse Canyon <sup>e</sup>	3/29	0	0.0	0.0	1.6 <sup>m</sup>
Martin Creek (Nev.)	3/30	1	0.1	8.1	8.2
Merritt Mountain <sup>e</sup> (Nev.)	3/31	14	5.2	5.6	- - <sup>h</sup>
Midas <sup>e</sup> (Nev.)	3/31	1	0.1	0.3	1.6 <sup>h</sup>
Mud Flat (Ida.)	3/29	9	3.0	4.8	4.2 <sup>m</sup>
Oregon Canyon <sup>e</sup>	3/29	3	1.1	0.6	4.4 <sup>m</sup>
Quinn Ridge <sup>e</sup> (Nev.)	3/29	0	0.0	0.0	0.7 <sup>m</sup>
Red Canyon <sup>e</sup> (Ida.)	3/29	18	6.8	3.4	4.4 <sup>m</sup>
Rock Spring	3/28	4	1.7	7.2	4.3
Rodeo Flat (Nev.)	3/23	9	3.0	2.7	5.8
76 Creek (Nev.)	3/27	38	16.4	13.2	10.9 <sup>h</sup>
Silver City (Ida.)	3/31	54	26.0	20.2	14.4 <sup>h</sup>
Silvies	3/30	42	19.4	15.4	12.3
Silvies Pillow*	3/30		34.1	- -	- -
South Mountain #2 (Ida.)	3/30	43	19.0	15.4	10.9
Stag Mountain <sup>e</sup> (Nev.)	3/31	0	0.0	3.6	- -
Stinking Water	3/31	0	0.0	0.0	0.3 <sup>h</sup>
Succor Creek <sup>e</sup> (Ida.)	3/29	12	4.6	3.4	4.9 <sup>m</sup>
Taylor Canyon (Nev.)	3/23	0	0.0	0.0	2.9
Toe Jam <sup>e</sup> (Nev.)	3/31	12	3.4	9.1	- -
Tremewan Ranch (Nev.)	3/23	0	0.0	0.0	0.0
Triangle (Ida.)	3/29	0	0.0	0.0	0.4 <sup>m</sup>
Trout Creek <sup>e</sup>	3/29	12	4.6	3.4	7.9 <sup>m</sup>
"V" Lake <sup>e</sup>	3/29	22	8.4	6.3	3.8 <sup>m</sup>
Vaught Ranch <sup>e</sup> (Ida.)	3/29	0	0.0	0.0	- -
War Eagle <sup>e</sup> (Ida.)	3/29	66	31.7	23.2	- -

\*Manometer reading.

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches) Last Yr. Ave. <sup>i</sup>

### BURNT, POWDER, PINE, GRANDE RONDE IMNAHA WATERSHEDS

Aneroid Lake #1	3/31	110	46.2	51.2	37.2 <sup>h</sup>
Aneroid Lake #2	3/31	94	39.4	46.0	32.9
Anthony Lake	3/30	95	37.8	30.6	27.7
Bald Mountain <sup>e</sup> (Ore.)	3/27	80	33.6	34.9	24.6 <sup>m</sup>
Beaver Reservoir	3/27	43	16.8	9.3	11.4
Beaver Reservoir (Alt.)	3/27	49	19.8	12.3	- -
Big Sheep <sup>e</sup>	3/27	57	23.3	37.2	23.0
Blue Mtn. Summit	3/30	22	8.0	9.7	7.4
Bourne	3/29	42	17.5	18.4	15.0
County Line	3/31	5	1.9	3.1	5.6
Dooley Mountain	3/27	21	7.7	10.9	7.6
Eilertson Meadows	3/28	27	10.7	14.1	11.3
Eldorado Pass	3/30	0	0.0	1.5	0.6 <sup>h</sup>
Gold Center	3/29	29	12.5	19.6	12.2
Goodrich Lake	3/31	114	52.1	67.6	36.2
Intake House	3/28	25	10.0	14.3	- -
Little Alps	3/30	61	24.4	16.8	14.7 <sup>h</sup>
Little Antone	3/30	10	4.1	7.0	- -
Lucky Strike	3/29	48	19.0	12.4	13.6 <sup>h</sup>
Lucky Strike Pillow*	b				
Meacham	3/29	30	12.6	6.7	9.6
Mirror Lake <sup>e</sup>	b				91.2 66.9 <sup>m</sup>
Moss Spring	3/30	87	35.6	32.6	24.1
Power Plant	3/28	0	0.0	7.5	- -
Schneider Meadows	3/31	75	33.4	45.3	29.9
Schoolmarm	3/31	1	0.5	1.6	4.2
Standley <sup>e</sup>	3/31	100	47.0	38.6	30.2 <sup>m</sup>
Taylor Green	3/31	53	23.2	22.0	16.6
Tipton	3/30	23	10.1	13.7	9.6
Tipton Snow Pillow	b				16.0 - -
Tollgate	3/30	74	33.6	30.7	26.5
TV Ridge <sup>e</sup>	3/31	63	25.2	30.8	- -

### UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

Arbuckle Mountain	3/30	24	12.1	11.6	11.3
Arbuckle Mtn. Pillow*	3/30		36.0	- -	- -
Battle Mountain Summit	3/29	T	T	T	1.3 <sup>m</sup>
Blue Mountain Camp	3/30	45	22.2	14.8	14.0 <sup>h</sup>
Emigrant Springs	3/29	T	T	2.6	3.1
High Ridge Pillow*	3/29		39.6	- -	- -
Lucky Strike	3/29	48	19.0	12.4	13.6 <sup>h</sup>
Lucky Strike Pillow*	b				- -
Meacham	3/29	30	12.6	6.7	9.6
Tollgate	3/30	74	33.6	30.7	26.5
Weston Mountain	3/30	0	0.0	0.0	0.1 <sup>m</sup>

\*Manometer reading.

# BASIC DATA SUPPLEMENT 1

APRIL 1, 1972

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
		Last Yr.	Ave. i	
Anthony Lake	3/30	95	37.8	30.6 27.7
Arbuckle Mountain	3/30	24	12.1	11.6 11.3
Arbuckle Mtn. Pillow*	3/30		36.0	- - -
Battle Mountain Summit	3/29	T	T	T 1.3 <sup>m</sup>
Beech Creek Summit	3/30	5	2.2	5.8 3.6
Blue Mountain Springs	3/29	47	19.0	20.9 15.5
Blue Mtn. Springs Pillow	3/29		11.9	11.0 - -
Blue Mountain Summit	3/30	22	8.0	9.7 7.4
Derr	3/29	23	9.3	10.4 9.5
East Fork Canyon <sup>e</sup>	6			- - 9.6 <sup>m</sup>
Gold Center	3/29	29	12.5	19.6 12.2 <sup>m</sup>
Indian Creek Butte <sup>e</sup>	3/29	60	25.2	- - 23.6 <sup>m</sup>
Izee Summit	3/28	13	4.7	8.0 7.5
Lucky Strike	3/29	48	19.0	12.4 13.6
Lucky Strike Pillow*	6			- - -
Marks Creek	3/30	0	0.0	0.9 1.7
Ochoco Meadows	3/31	18	8.0	10.7 9.3
Olive Lake <sup>e</sup>	3/29	50	21.0	25.5 20.7
Schoolmarm	3/31	1	0.5	1.6 4.2
Snow Mountain	3/31	35	15.2	14.7 12.9
Snow Mtn. Pillow*	6			13.3 - -
Starr Ridge	3/28	14	5.0	6.2 4.1
Tipton	3/30	23	10.1	13.7 9.6
Tipton Snow Pillow	6			16.0 - -
Williams Ranch	3/30	0	0.0	0.0 - -

\*Manometer reading.

## UPPER DESCHUTES WATERSHEDS

Black Pine Spring	DISCONTINUED			
Caldwell Ranch	4/3	4	1.5	13.8 9.1
Cascade Summit	3/31	84	37.4	47.6 30.7
Chemult	3/31	8	3.6	13.2 8.5
Deer Creek	DISCONTINUED			
Derr	3/29	23	9.3	10.4 9.5
Hogg Pass	3/30	134	63.3	61.9 43.4
Hungry Flat	3/31	0	0.0	8.2 3.1
Irish-Taylor	3/29	128	58.6	52.6 38.4
Irish-Taylor Pillow	3/31		63.6	51.3 - -
Marks Creek	3/30	0	0.0	0.9 1.7
Mowich	DISCONTINUED			
New Crescent Lake	3/27	23	9.2	22.8 14.5
New Dutchman Flat #2	3/31	162	80.2	73.3 51.9
Ochoco Meadows	3/31	18	8.0	10.7 9.3
Snow Mountain	3/31	35	15.2	14.7 12.9
Snow Mtn. Pillow	6			13.3 - -
Tamarack	3/30	0	0.0	4.5 4.1 <sup>h</sup>
Tangent	3/31	49	24.4	33.8 22.0
Three Creek Butte	3/30	17	7.8	16.9 9.6 <sup>h</sup>
Three Creek Meadow	3/30	50	22.6	27.5 19.0
Three Creek Mdw. Pillow	3/31		30.3	- - -
Waldo Lake	4/3	101	48.1	44.7 32.4
Willamette Pass	3/28	130	57.2	60.4 41.6
Willamette Pass Pillow	6			58.0 - -

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
		Last Yr.	Ave. i	

## HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

Brooks Meadows	3/21	11	5.5	18.2 11.4
Clear Lake	3/23	26	10.6	17.6 10.6
Clear Lake (Experimental)	3/23	42	18.8	26.9 19.2 <sup>h</sup>
Cooper Spur	DISCONTINUED			
Cooper Spur Alt.	3/30	15	5.8	23.0 - -
Greenpoint Reservoir	3/30	26	10.9	33.2 17.5
Knebal Springs	3/21	8	3.9	12.0 7.4 <sup>h</sup>
Parkdale	3/30	0	0.0	T - -
Phlox Point	3/24	201	101.4	97.9 62.5
Red Hill	3/28	126	62.3	64.3 43.7
Still Creek	3/23	71	33.8	41.5 25.0
Still Creek (Alt. #2)	3/23	76	34.3	41.8 - -
Switchback	3/31	25	10.4	29.0 - -
Tilly Jane	3/26	107	48.3	62.2 45.3
Ulrich Ranch Junction	3/21	0	0.0	4.3 3.2 <sup>h</sup>
Umbrella Falls	4/1	222	113.4	103.5 - -
Upper Valley	3/30	0	0.0	4.8 - -

## WILLAMETTE WATERSHEDS

Cascade Summit	3/31	84	37.4	47.6 30.7
Champion	3/30	75	35.5	50.5 30.2
Clackamas Lake	3/31	38	16.0	23.7 12.4
Clear Lake	3/23	26	10.6	17.6 10.6
Clear Lake (Experimental)	3/23	42	18.8	26.9 19.2 <sup>h</sup>
Dead Horse Grade	3/29	54	23.5	26.5 19.8
Detroit (Town)	3/30	0	0.0	0.0 0.0
Detroit Dam	3/30	0	0.0	0.0 0.0
Golden Curry Creek	3/30	T	T	5.9 4.1 <sup>h</sup>
Hogg Pass	3/30	134	63.3	61.9 43.4 <sup>m</sup>
Lake Harriet	6			- - 0.1 <sup>m</sup>
Laurel Mountain	3/31	T	T	10.2 - -
Laying Creek	3/30	0	0.0	0.0 0.0
Lookout Point Dam*	3/31	0	0.0	0.0 0.0
Lost Creek Ranch	3/29	0	0.0	9.5 1.4
Lund Park	3/30	0	0.0	0.0 0.0
Marion Forks	3/30	33	13.6	29.0 13.4
Marys Peak	3/30	20	9.1	29.0 14.2 <sup>m</sup>
Marys Peak (Alt.)	3/30	10	4.6	24.4 - -
McCredie Springs	3/31	0	0.0	0.0 0.0
McKenzie	3/29	130	67.4	64.7 45.3
McKenzie Bridge	3/29	0	0.0	0.0 0.0
Mill City	3/30	0	0.0	0.0 0.0
Oakridge	3/31	0	0.0	0.0 0.0
Peavine Ridge	6			31.0 19.5
Peavine Ridge Pillow	3/31		21.3	27.0 - -
Phlox Point	3/24	201	101.4	97.9 62.5
Railroad Overpass	3/31	0	0.0	0.0 1.3
Saddle Mountain	3/28	29	10.8	- - -
Salt Creek Falls	3/31	43	18.5	28.7 17.4
Santiam Junction	3/30	69	33.6	41.5 24.3
Seine Creek	3/28	0	0.0	- - -
Still Creek	3/23	71	33.8	41.5 25.0
Still Creek Alternate #2	3/23	76	34.3	41.8 - -
Timothy Lake	3/31	48	21.2	30.6 13.2 <sup>m</sup>
Valsetz Summit	3/31	0	0.0	6.6 - -
Vida	3/29	0	0.0	0.0 0.0
Waldo Lake	4/3	101	48.1	44.7 32.4
Weaver Creek	3/30	0	0.0	0.0 0.6
White Branch Slide	3/29	22	8.5	16.4 4.9
Whitewater Bridge	3/30	0	0.0	15.0 1.8
Willamette Pass	3/28	130	57.2	60.4 41.6
Willamette Pass Pillow	6			58.0 - -

\*Known as Meridian Dam

# BASIC DATA SUPPLEMENT 1

APRIL 1, 1972

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
		Last Yr.	Ave.	i
ROGUE, UMPQUA WATERSHEDS				
Althouse	3/30	0	0.0	11.2
Althouse #2	3/30	0	0.0	12.6
Annie Spring	3/31	115	52.0	69.5
Beaver Dam Creek	3/30	19	8.7	22.2
Big Red Mountain	3/27	70	29.5	40.3
Billie Creek Divide	3/30	59	27.8	30.7
Caliban	3/29	84	37.2	41.7
Champion	3/30	75	35.5	50.5
Cold Springs Camp	3/30	104	48.3	51.7
Cold Springs Camp Pillow	3/31		34.5	43.4
Deadwood Junction	3/30	T	T	14.4
Diamond-Crater Summit	3/29	106	48.6	53.6
Diamond-Crater Sum. Alt.	3/29	95	42.3	45.3
Diamond Lake	3/29	60	25.6	31.0
Fish Lake	3/30	23	9.6	23.4
Fourmile Lake	3/30	52	23.8	39.8
Grayback Peak	3/24	43	18.8	28.3
Howard Prairie	3/30	0	0.0	12.7
Hyatt Prairie	3/30	T	T	13.3
King Mountain #1	3/29	T	T	18.0
King Mountain #2	3/29	0	0.0	14.3
King Mountain #3	3/29	0	0.0	0.0
King Mountain #4	3/29	0	0.0	0.0
King Mountain #5	3/29	0	0.0	0.0
King Mountain #6	3/29	0	0.0	0.0
Little Red Mountain	3/27	57	22.9	28.7
Mt. Ashland Switchback	3/29	83	33.7	46.8
Mule Creek	3/29	0	0.0	14.3
North Umpqua	3/28	35	16.6	24.1
Page Mountain	3/30	0	0.0	2.8
Park Headquarters	3/31	169	82.9	85.4
Red Butte #1	3/27	32	9.5	25.8
Red Butte #2	3/27	11	2.1	13.8
Red Butte #3	3/27	8	1.2	8.4
Red Butte #4	3/27	1	0.4	1.2
Red Butte #5	3/27	0	0.0	0.0
Red Butte #6	3/27	0	0.0	0.0
Seven Lakes #2	3/28	135	70.8	47.2
Seven Mile	3/29	90	37.9	38.3
Silver Burn	4/4	16	7.5	21.5
Siskiyou Summit	3/30	0	0.0	12.0
Siskiyou Summit Alt. #2	3/30	0	0.0	10.2
Ski Bowl Road	3/29	61	25.7	40.7
South Fork Canal	4/4	0	0.0	5.0
Trap Creek	3/28	21	9.6	19.0
Whaleback	3/31	80	35.7	49.3

## SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
	Last Yr.	Ave.	i	
KLAMATH WATERSHEDS				
Annie Spring	3/31	115	52.0	69.5
Beatty (PP&L)	b			0.0 <sup>m</sup>
Billie Creek Divide	3/30	59	27.8	30.7
Bly Mountain				21.1
Bly 101 Ranch (PP&L)	b			0.2 <sup>m</sup>
Chemult	3/31	8	3.6	13.2
Chiloquin (PP&L)	3/31	0	0.0	- - T
Cold Springs Camp	3/30	104	48.3	51.7
Cold Springs Camp Pillow	3/31		34.5	43.4
Crazyman Flat <sup>e</sup>	3/29	12	4.6	12.2
Crowder Flat <sup>e</sup> (Calif.)	3/29	0	0.0	1.2
Crystal (PP&L)	3/30	0	0.0	15.0
Diamond-Crater Summit	3/29	106	48.6	53.6
Diamond-Crater Sum. Alt.	3/29	95	42.3	45.3
Diamond Lake Jct. (97)	3/29	0	0.0	9.8
Dog Hollow <sup>e</sup>	3/29	0	0.0	0.0
Finley Corrals	3/29	33	13.2	20.4
Fort Klamath (PP&L)	3/30	0	0.0	2.9
Fourmile Lake	3/30	52	23.8	39.8
Gerber	3/31	0	0.0	0.0
Harriman (PP&L)	3/31	0	0.0	5.2
Hyatt Prairie Reservoir	3/30	T	T	13.3
Kirk (PP&L)	b			9.2
Lake of the Woods	3/30	20	8.6	12.2
Park Headquarters	3/31	169	82.9	85.4
Pelican Guard Station				58.6
Quartz Mountain	3/30	0	0.0	8.4
Quartz Mountain (Ext.)	3/30	0	0.0	- -
Seven Lakes #2	3/28	135	70.8	47.2
Seven Mile	3/29	90	37.9	38.3
State Line <sup>e</sup> (Calif.)	3/29	0	0.0	8.8
Strawberry	4/3	4	1.9	9.2
Summer Rim	3/31	43	18.3	21.1
Summer Rim Snow Pillow	3/31		19.8	19.0
Sun Mountain				DISCONTINUED
Sycan Flat <sup>e</sup>	3/29	4	1.5	8.5
Taylor Butte	3/27	T	T	6.5
LAKE COUNTY, GOOSE LAKE WATERSHEDS				
Adin Mountain (Calif.)	3/31	27	11.4	18.1
Bald Mountain (Nev.)	3/27	0	0.0	1.4
Bear Flat Meadow <sup>e</sup>	3/29	20	7.6	11.9
Camas Creek	3/29	19	7.2	12.5
Cedar Pass (Calif.)	3/31	49	21.6	21.2
Colvin Creek <sup>e</sup>	3/29	0	0.0	4.8
Cox Flat <sup>e</sup>	3/29	0	0.0	7.5
Crowder Flat <sup>e</sup> (Calif.)	3/29	0	0.0	1.2
Dismal Swamp <sup>e</sup> (Calif.)	3/31	54	21.6	23.2
Finley Corrals <sup>e</sup>	3/29	33	13.2	20.4
Hart Mountain <sup>e</sup>	3/29	0	0.0	1.5
Little Bally Mtn. <sup>e</sup> (Nev.)	3/29	0	0.0	1.8
Mt. Bidwell (Calif.)	3/28	76	34.2	34.3
North Star (Calif.)	b			- - -
Patton Meadows <sup>e</sup>	3/29	54	22.1	23.1
Quartz Mountain	3/30	0	0.0	8.4
Quartz Mountain (Ext.)	3/30	0	0.0	8.0
Sherman Valley <sup>e</sup>	3/29	33	13.2	15.3
Silver Creek	3/27	0	0.0	3.0
State Line <sup>e</sup> (Calif.)	3/29	0	0.0	8.8
Strawberry	4/3	4	1.9	9.2
Summer Rim	3/31	43	18.3	21.1
Summer Rim Snow Pillow	3/31		19.8	19.0
Sycan Flat <sup>e</sup>	3/29	4	1.5	8.5
Willow Creek <sup>e</sup>	3/29	0	0.0	3.0

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
	Last Yr.	Ave.	i	
LAKE COUNTY, GOOSE LAKE WATERSHEDS				
Adin Mountain (Calif.)	3/31	27	11.4	18.1
Bald Mountain (Nev.)	3/27	0	0.0	2.5
Bear Flat Meadow <sup>e</sup>	3/29	20	7.6	10.9 <sup>m</sup>
Camas Creek	3/29	19	7.2	12.5
Cedar Pass (Calif.)	3/31	49	21.6	21.2
Colvin Creek <sup>e</sup>	3/29	0	0.0	4.8
Cox Flat <sup>e</sup>	3/29	0	0.0	7.5
Crowder Flat <sup>e</sup> (Calif.)	3/29	0	0.0	1.2
Dismal Swamp <sup>e</sup> (Calif.)	3/31	54	21.6	23.2
Finley Corrals <sup>e</sup>	3/29	33	13.2	20.4
Hart Mountain <sup>e</sup>	3/29	0	0.0	1.5
Little Bally Mtn. <sup>e</sup> (Nev.)	3/29	0	0.0	1.8
Mt. Bidwell (Calif.)	3/28	76	34.2	34.3
North Star (Calif.)	b			- - -
Patton Meadows <sup>e</sup>	3/29	54	22.1	23.1
Quartz Mountain	3/30	0	0.0	8.4
Quartz Mountain (Ext.)	3/30	0	0.0	8.0
Sherman Valley <sup>e</sup>	3/29	33	13.2	15.3
Silver Creek	3/27	0	0.0	3.0
State Line <sup>e</sup> (Calif.)	3/29	0	0.0	8.8
Strawberry	4/3	4	1.9	9.2
Summer Rim	3/31	43	18.3	21.1
Summer Rim Snow Pillow	3/31		19.8	19.0
Sycan Flat <sup>e</sup>	3/29	4	1.5	8.5
Willow Creek <sup>e</sup>	3/29	0	0.0	3.2

## **BASIC DATA SUPPLEMENT 1**

APRIL 1, 1972

SNOW

SNOW	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
DRAINAGE BASIN and/or SNOW COURSE				Last Yr Ave?

**SNOW**

SNOW DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR		PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches)
	Last Yr.	Ave.		

## HARNEY BASIN WATERSHEDS

Blue Mountain Springs	3/29	47	19.0	20.9	15.5
Blue Mtn. Springs Pillow	3/29		11.9	11.0	- -
Buck Pasture <sup>e</sup>	3/29	0	0.0	T	2.2 <sup>m</sup>
Buckskin Lake <sup>e</sup>	3/29	0	0.0	0.0	0.0 <sup>m</sup>
Call Meadows <sup>e</sup>	3/29	0	0.0	4.1	3.0 <sup>m</sup>
Delintment Lake	3/31	9	4.0	7.0	6.8 <sup>h</sup>
Denio Creek <sup>e</sup>	3/29	0	0.0	0.0	0.0 <sup>m</sup>
Disaster Peak (Nev.)	3/29	31	13.5	11.5	9.5 <sup>l</sup>
Emigrant Butte	3/30	0	0.0	0.0	1.8 <sup>h</sup>
Fish Creek	3/30	74	30.7	33.1	25.0
Fish Creek Pillow*	3/30		43.3	- -	- -
Hart Mountain <sup>e</sup>	3/29	0	0.0	1.5	0.9 <sup>m</sup>
Idlewild Camp	3/30	0	0.0	5.2	4.2
Idlewild Camp Alt.	3/30	0	0.0	- -	- -
Izee Summit	3/28	13	4.7	8.0	7.5
Lake Creek R. S.	3/29	23	9.4	12.8	9.3
Oregon Canyon <sup>e</sup>	3/29	3	1.1	0.6	4.4 <sup>m</sup>
Rock Spring	3/28	4	1.7	7.2	4.3
Silvies <sup>e</sup>	3/30	42	19.4	15.4	12.3
Silvies Pillow*	3/30		34.1	- -	- -
Snow Mountain	3/31	35	15.2	14.7	12.9
Snow Mountain Pillow		6		13.3	- -
Starr Ridge	3/28	14	5.0	6.2	4.1
Stinking Water	3/31	0	0.0	0.0	0.3 <sup>h</sup>
Trout Creek <sup>e</sup>	3/29	12	4.6	3.4	7.9 <sup>m</sup>
"V" Lake	3/29	22	8.4	6.3	3.8 <sup>m</sup>

\*Manometer reading.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average or 5 or more years in base period.

# BASIC DATA SUPPLEMENT 2

APRIL 1, 1972

## SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average <i>i</i>
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	<i>b</i>		10.8	11.6
Big Bend (Nev.)	6700	48	16.7	3/23	14.9	16.7	15.9
Blue Mountain Spring	5900	42	16.9	3/29	13.1	12.1	11.2
Crane Prairie	5375	48	18.2	3/29	17.9	18.0	16.3
Folly Farm	4450	30	12.5	<i>b</i>			
Jack Creek, Lower (Nev.)	6800	48	8.6	<i>c</i>			- -
Jordan Valley	4390	48	19.3	3/30	16.6	16.7	
Mud Flat (Ida.)	5500	48	12.8	2/28	14.0 <sup>f</sup>	14.4	13.2
Rodeo Flat (Nev.)	6800	42	11.0	3/23	7.8	5.7	- -
Taylor Canyon (Nev.)	6200	48	15.1	3/23	13.5	15.1	13.8
Triangle (Ida.)	5150	48	16.6	<i>c</i>			
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	3/30	16.0	14.7	11.5
Dooley Mountain	5430	36	9.2	3/27	7.0	6.3	4.5
Emigrant Springs	3925	48	22.3	3/29	20.4	22.1	20.2
Ladd Summit	3730	48	18.9	3/29	13.3	14.0	11.1
Moss Springs	5850	36	25.8	3/27	16.3	16.0	- -
Tollgate	5070	48	23.6	3/30	17.1	17.3	19.5
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	3/29	13.7	13.8	13.3
Emigrant Springs	3925	48	22.3	3/29	20.4	22.1	20.2
Tollgate	5070	48	23.6	3/30	17.1	17.3	19.5
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	3/29	13.7	13.8	13.3
Beech Creek	4800	48	21.3	3/30	20.4	17.6	14.4
Blue Mountain Spring	5900	42	16.9	3/29	13.1	12.1	11.2
Blue Mountain Summit	5100	36	16.8	3/30	16.0	14.7	11.5
Derr	5670	24	9.0	3/29	8.3	8.2	- -
Marks Creek	4540	36	14.1	3/30	13.3	13.8	12.6
Snow Mountain	6300	48	16.7	3/31	16.2	14.5	14.2
Starr Ridge	5150	36	10.6	3/28	10.6	10.6	10.0
Williams Ranch	4500	42	17.9	3/28	17.8	17.9	17.2
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	3/29	8.3	8.2	- -
Marks Creek	4540	36	14.1	3/30	13.3	13.8	12.6
Snow Mountain	6300	48	16.7	3/31	16.2	14.5	14.2
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS							
Cooper Spur	3490	72	26.4	3/30	14.2	14.4	- -
KLAMATH WATERSHEDS							
Bly Mountain	5090	42	14.0	DISCONTINUED 3/30			
Quartz Mountain	5230	48	15.3		10.3	10.0	8.8

# BASIC DATA SUPPLEMENT 2

APRIL 1, 1972

## SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average <sup>i</sup>
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	3/29	13.2	13.2	12.5
Quartz Mountain	5230	48	15.3	3/30	10.3	10.0	8.8
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	3/29	13.1	12.1	11.2
Fish Creek	7900	48	15.0	3/30	10.1	12.0	--
Folly Farm	4450	30	12.5	6			
Silvies	6900	48	16.4	3/30	16.0	16.2	13.1
Snow Mountain	6300	48	16.7	3/31	16.2	14.5	14.2
Starr Ridge	5150	36	10.6	3/28	10.6	10.6	10.0
Willow-Bald	5000	24	6.6	3/31	6.6	6.4	5.6

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

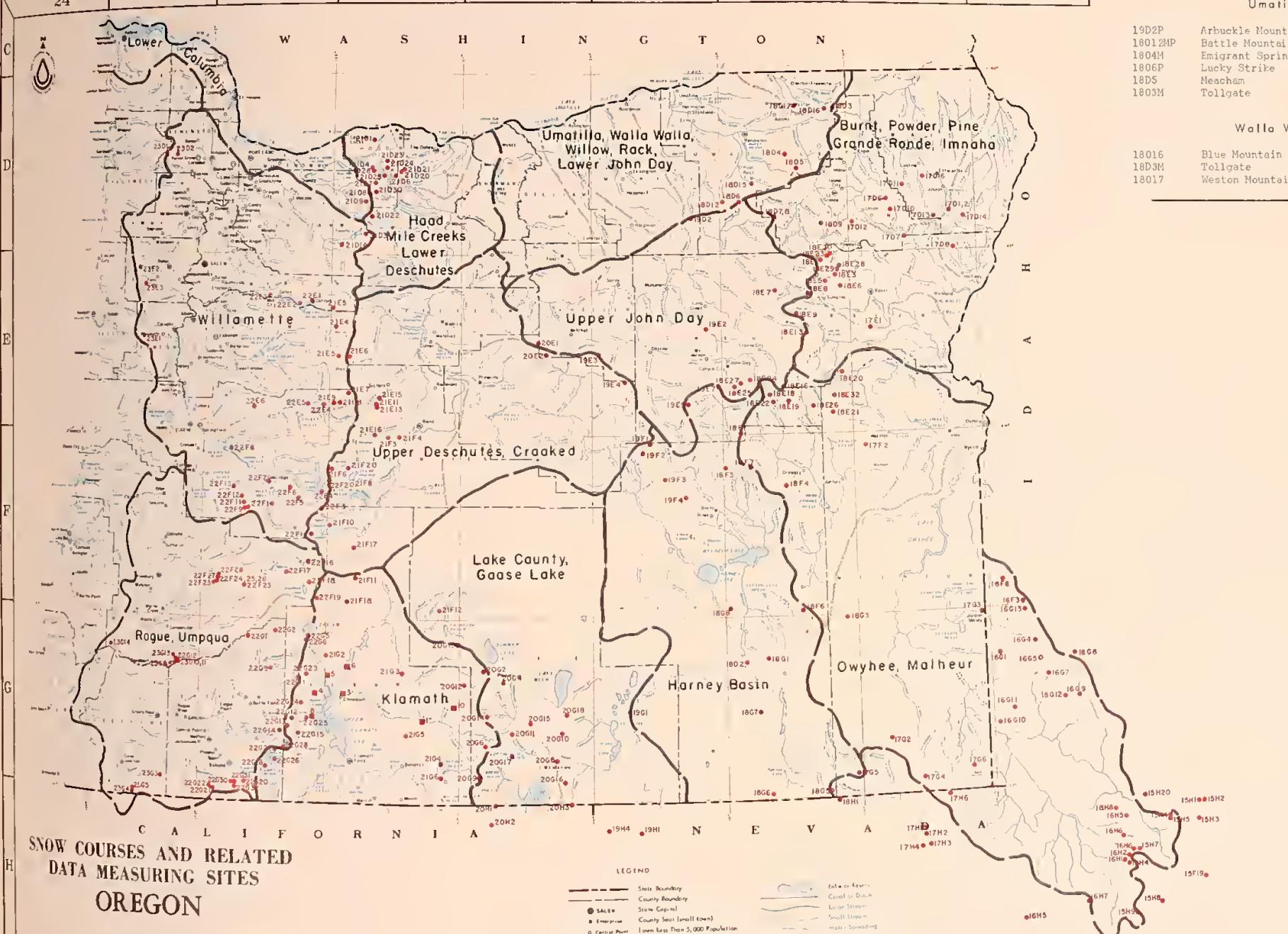
# BASIC DATA SUPPLEMENT 3

APRIL 1, 1972

## PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average
Allison Work Center (Harney County)	5320	2/25 to 3/31	6.39		
Althouse (Josephine County)	4530	2/28 to 3/30	6.30		
Arbuckle Mountain (Morrow County)	5400	2/25 to 3/30	4.49		
Brooks Meadow (Hood River County)	4520	2/22 to 3/21	9.00		
Camas Creek (Lake County)	5825	2/26 to 3/29	4.90		
County Line (Umatilla County - Starkey Hdqrs.)	4800	2/29 to 3/31	3.38		
Eilertson Meadow (Baker County)	5400	2/24 to 3/28	5.62		
Quartz Mtn. Summit (Lake County)	5300	2/29 to 3/30	2.63		
Silver Creek (Lake County)	4900	2/27 to 3/27	2.00		
Strawberry (Lake County)	5760	3/7 to 4/3	3.15		
Taylor Butte (Klamath County)	5040	2/25 to 3/27	4.30		
Taylor Green (Union County)	5800	2/28 to 3/27	6.10		
Tipton (Baker County)	5100	2/28 to 3/30	3.94		

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**NOW COURSES AND RELATED  
DATA MEASURING SITES  
OREGON**

# Map and Index to OREGON SNOW COURSES



## The Following Organizations Cooperate in the Oregon Snow Survey Work

### STATE

Idaho Cooperative Snow Surveys  
Nevada Cooperative Snow Surveys  
Oregon State University  
Oregon State Engineer and Corps of State Watermasters  
Oregon State Highway Engineers  
Soil and Water Conservation Districts of Oregon

### COUNTY

Douglas County Water Resources Survey

### FEDERAL

Department of Agriculture  
Cooperative Extension Service  
Forest Service  
Soil Conservation Service  
Department of Commerce  
NOAA, National Weather Service  
Department of the Interior  
Bonneville Power Administration  
Bureau of Land Management  
Bureau of Reclamation  
Fish and Wildlife Service  
Geological Survey  
National Park Service  
Department of National Defense  
Corps of Army Engineers

### PUBLIC UTILITIES

Pacific Power and Light Company  
Portland General Electric Company  
California-Pacific Utilities Company

### MUNICIPALITIES

City of Baker  
City of La Grande  
City of The Dalles  
City of Walla Walla

### IRRIGATION DISTRICTS

Arnold Irrigation District  
Associated Ditch Companies  
Burnt River Irrigation District  
Central Oregon Irrigation District  
East Fork Irrigation District  
Grants Pass Irrigation District  
Hood River Irrigation District  
Jordan Valley Irrigation District  
Juniper Flat Irrigation District  
Lakeview Water Users, Incorporated  
Medford Irrigation District  
Middle Fork Irrigation District  
North Board of Control - Owyhee Project  
North Unit Irrigation District  
Ochoco Irrigation District  
Rogue River Valley Irrigation District  
South Board of Control - Owyhee Project  
Squaw Creek Irrigation District  
Talent Irrigation District  
Tumalo Project  
Vale-Oregon Irrigation District  
Warmsprings Irrigation District

### PRIVATE ORGANIZATIONS

The Crag Rats, Hood River, Oregon

UNITED STATES DEPARTMENT OF AGRICULTURE  
UNITED SOIL CONSERVATION SERVICE  
1218 S. W. WASHINGTON ST.  
PORTLAND, OREGON 97205

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—  
“The Conservation of Water begins  
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